Claims

[01] An improved large bandwidth high frequency amplifier having a feedback loop comprising:

at least one input terminal, said input terminals supplyan
ing_A input signal (Vin);

at least one output terminals, said output terminals supplying an amplified differential output signal (Vout) as a function of the input signal;

an input matching circuit;

a first isolation circuit;

an amplification section, wherein said input matching circuit, first isolation circuit and amplification section are connected in series in a direct amplification line, said amplification section having at least one large bandwidth low gain differential amplifier capable of generating said amplified output signal; and,

a parallel feedback circuit consisting of a first feedback amplifier, an RC network, and a second isolation circuit connected in series, said parallel feedback circuit positioned between said output terminals and the amplification section inputs.

The improved amplifier of claim 1 wherein said first iso-

NW dulof

[c2]